

# North Central Missouri Water Supply Lake

RESOP Run:

Demand = Optimized

Demand = 5.75 MGD

Demand = 6.75 MGD

June 14, 2004

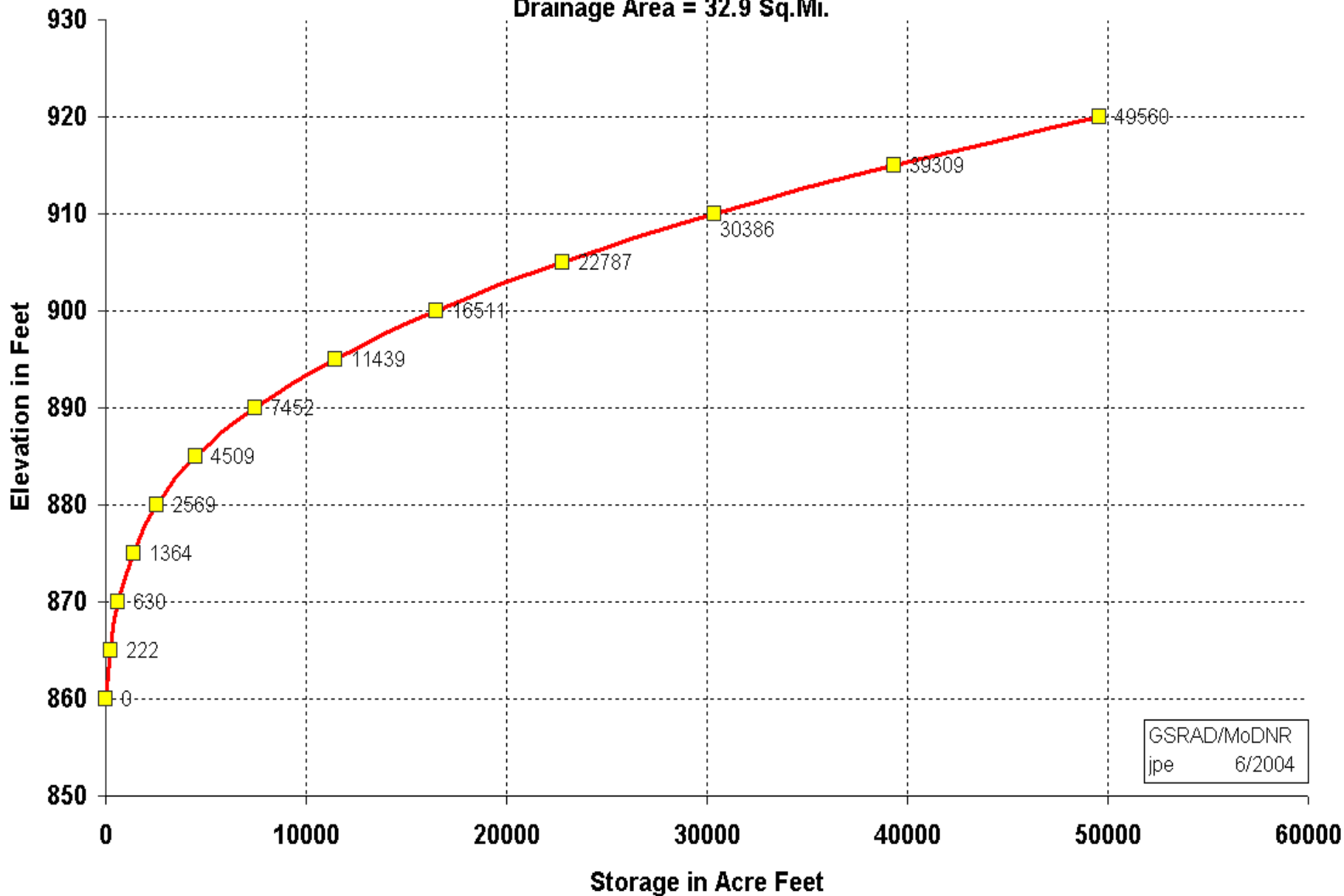


Missouri Department of  
**Natural Resources**  
Geological Survey and Resource Assessment Division

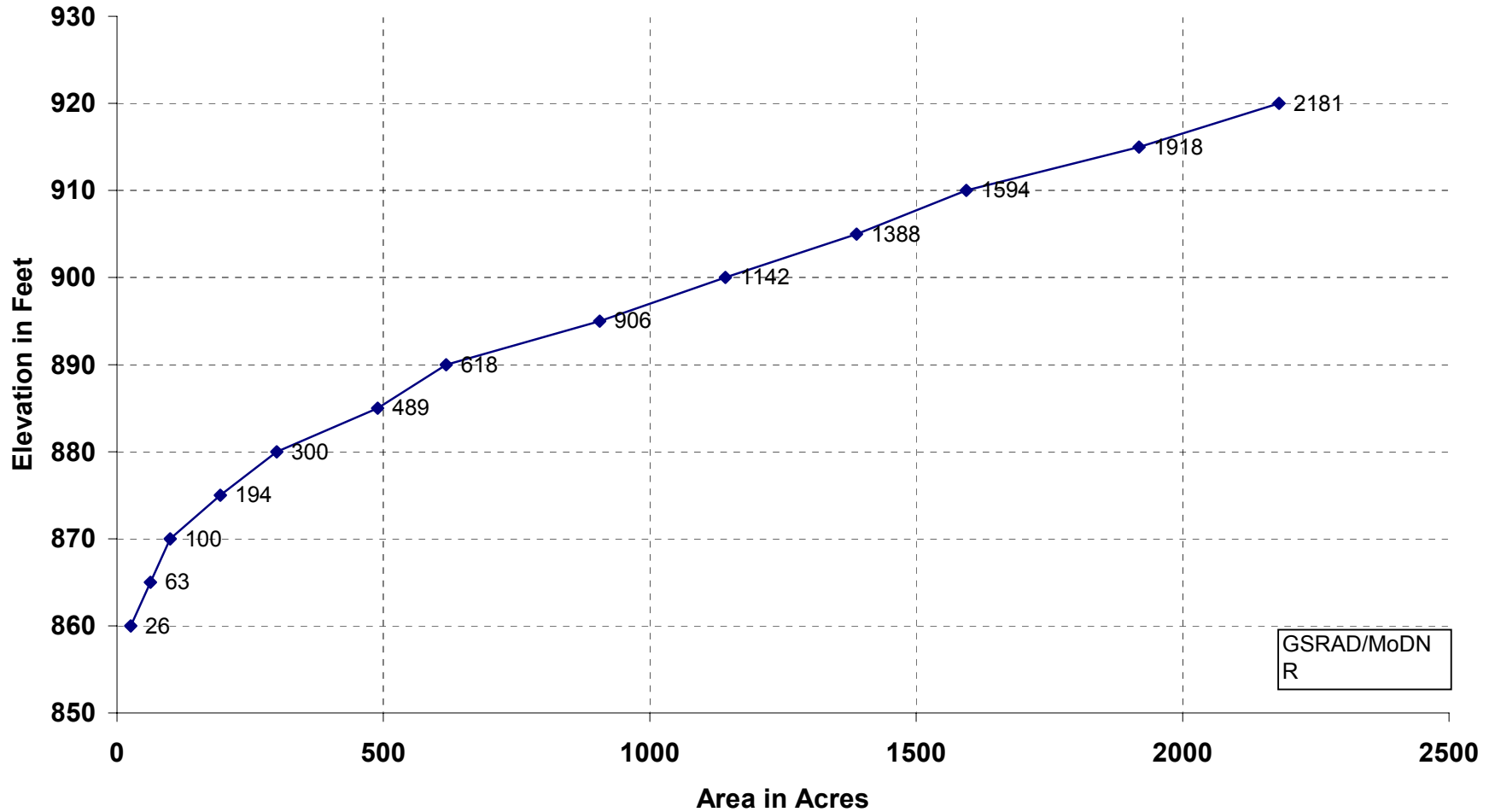
# North Central Missouri Water Supply

## East Locust Site

Drainage Area = 32.9 Sq.Mi.

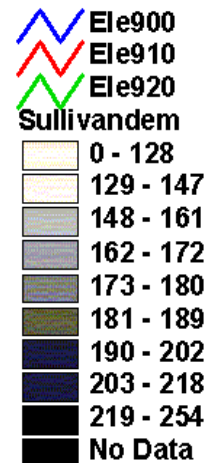
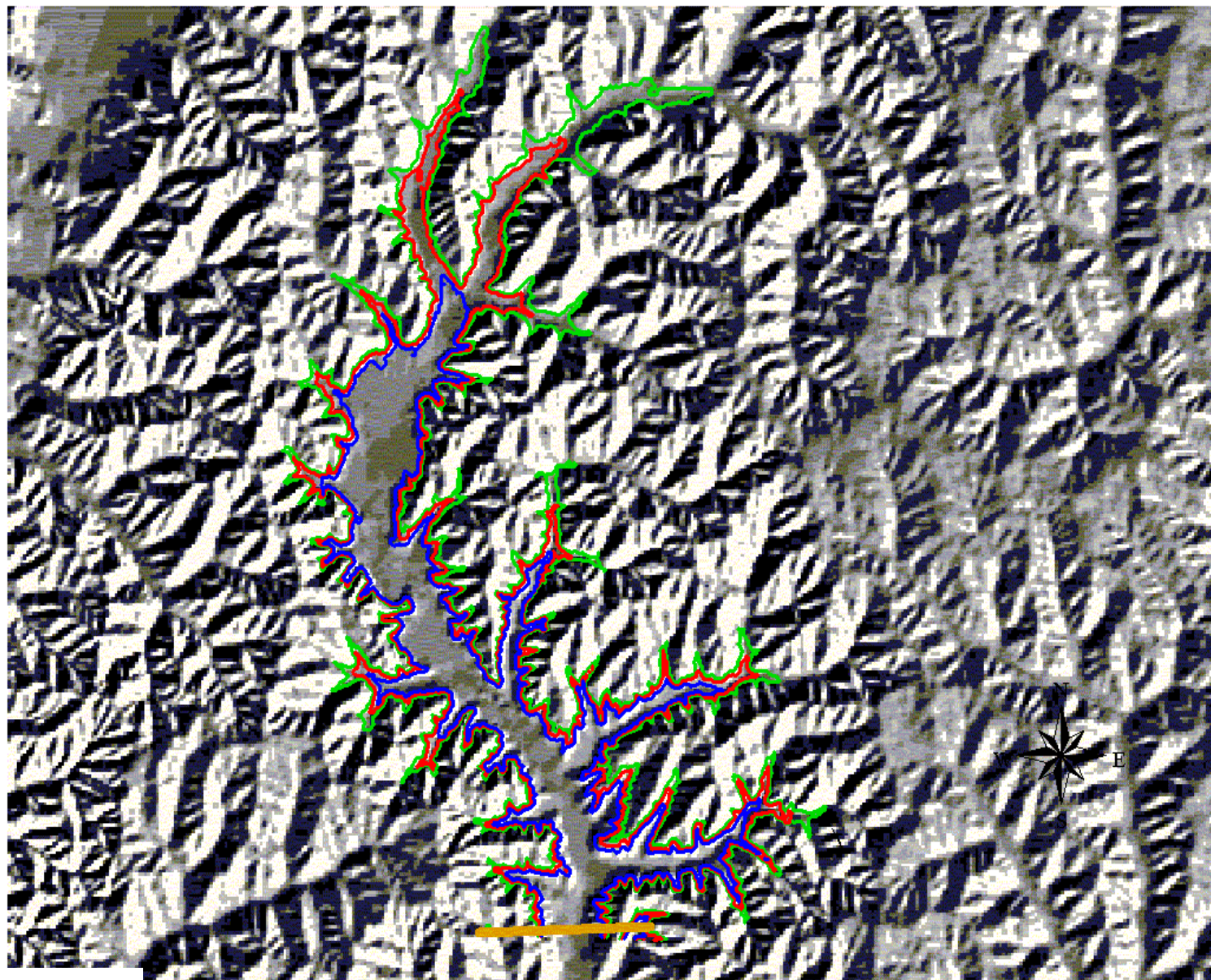


**North Central Missouri Water Supply**  
**East Locust Creek**  
**Drainage Area 32.9 Sq. Mi.**

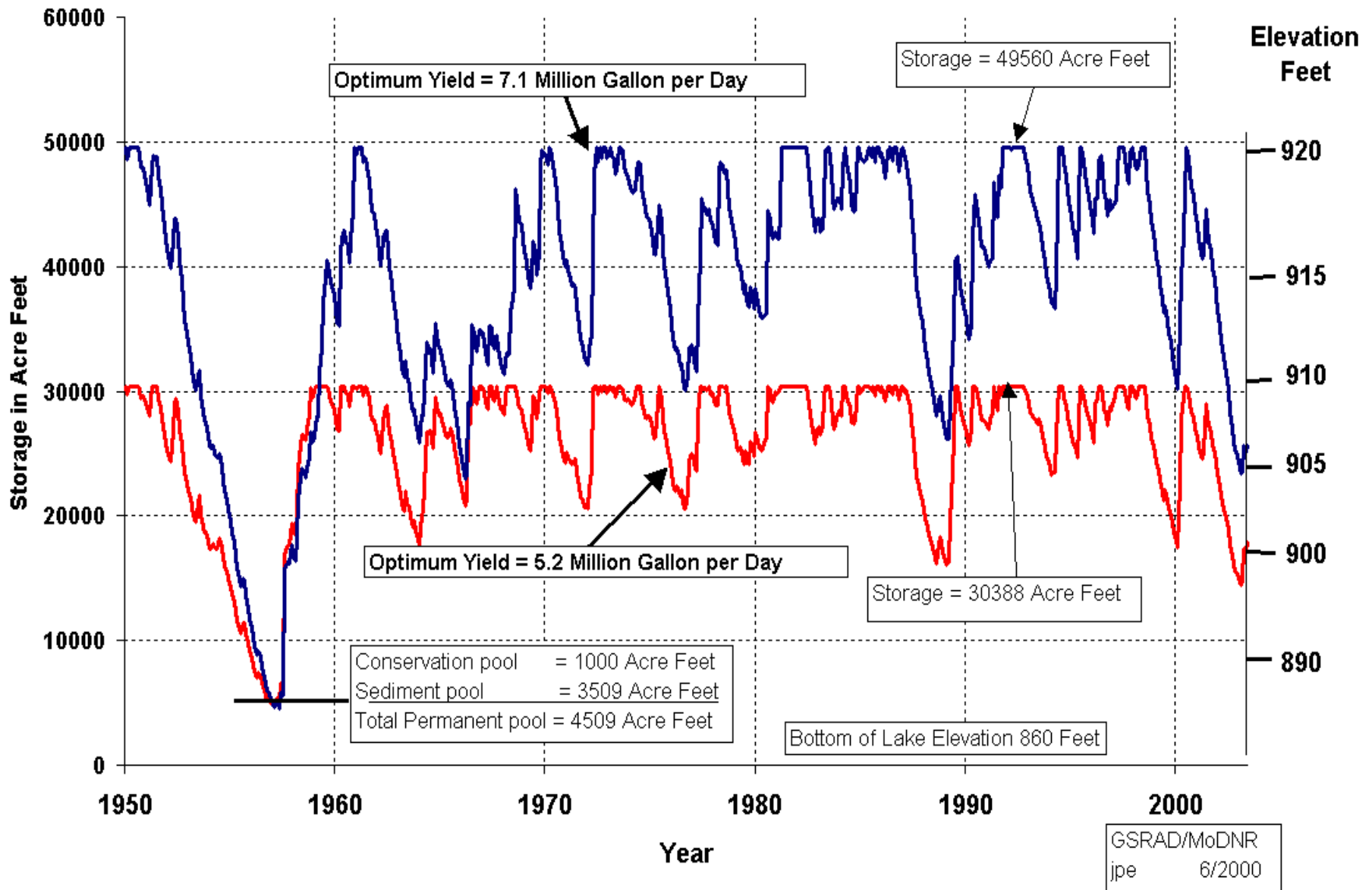




# NCM New Lake at Various Elevations



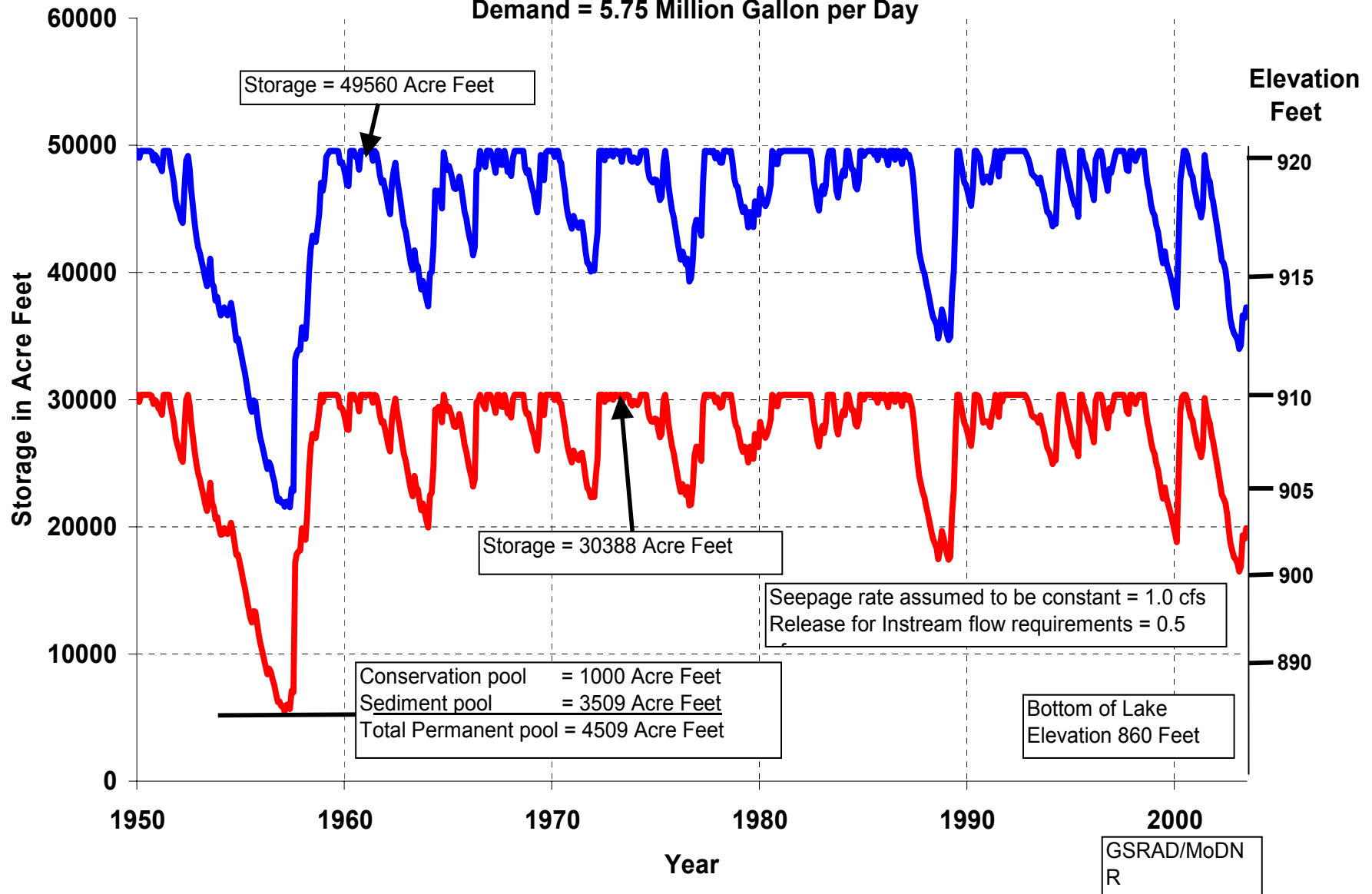
North Central Missouri Water Supply  
Spillway Elevation 910 and 920 Feet  
Optimum Yield Runs



# North Central Missouri Water Supply

Spillway Elevations 910 and 920 Feet

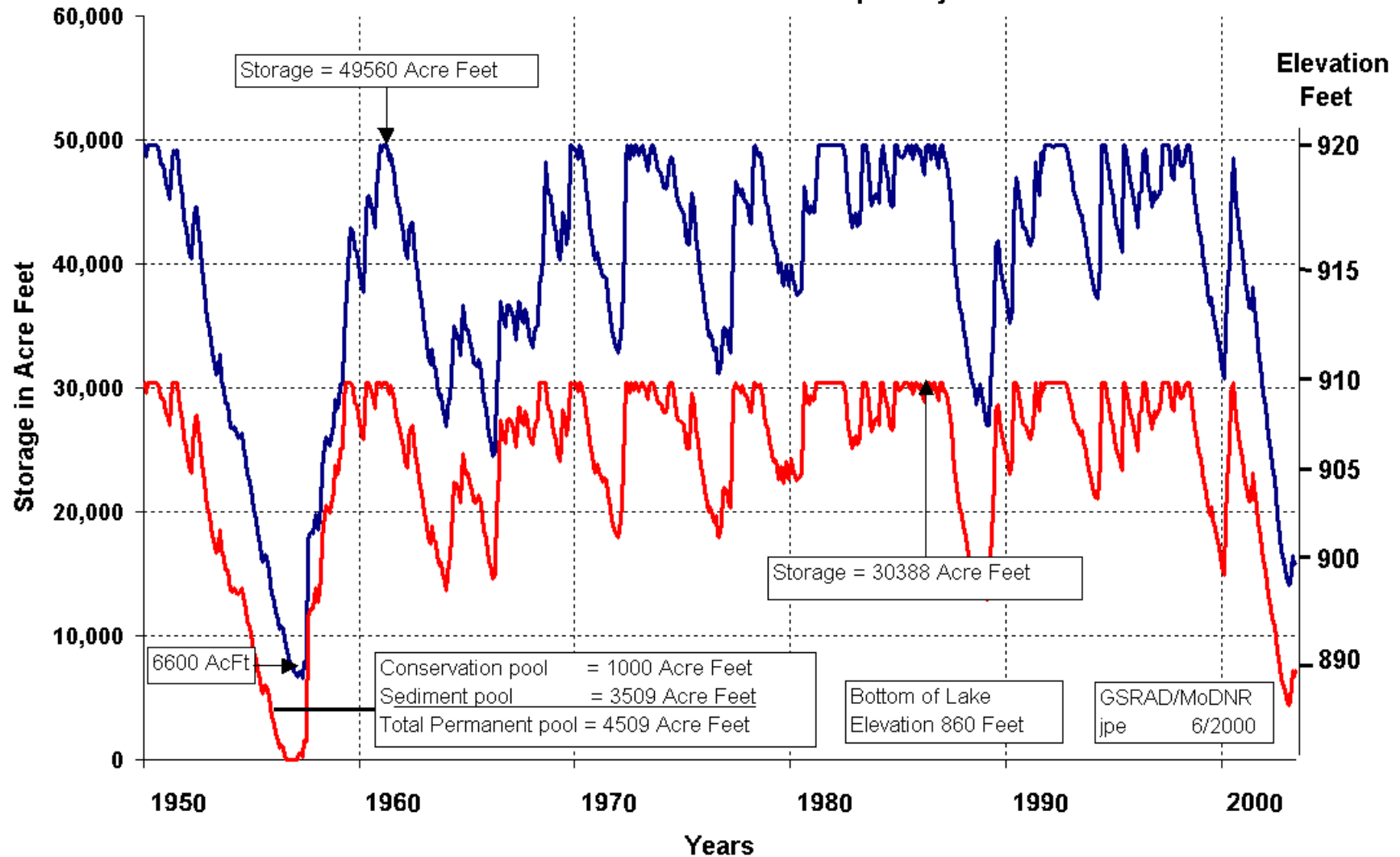
Demand = 5.75 Million Gallon per Day



# North Central Missouri Water Supply District

Spillway Elevations 910 and 920 Feet

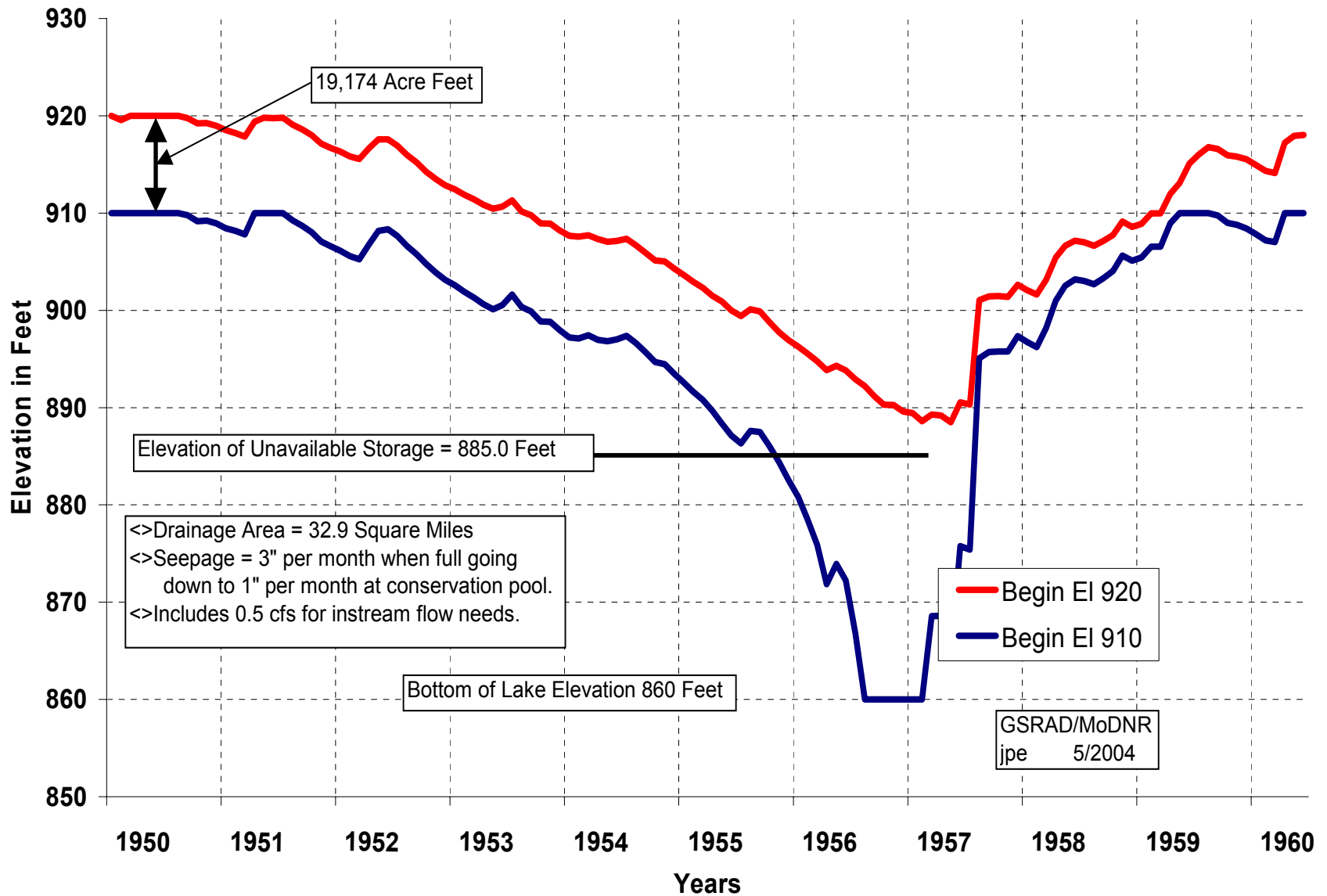
Demand = 6.75 Million Gallon per Day





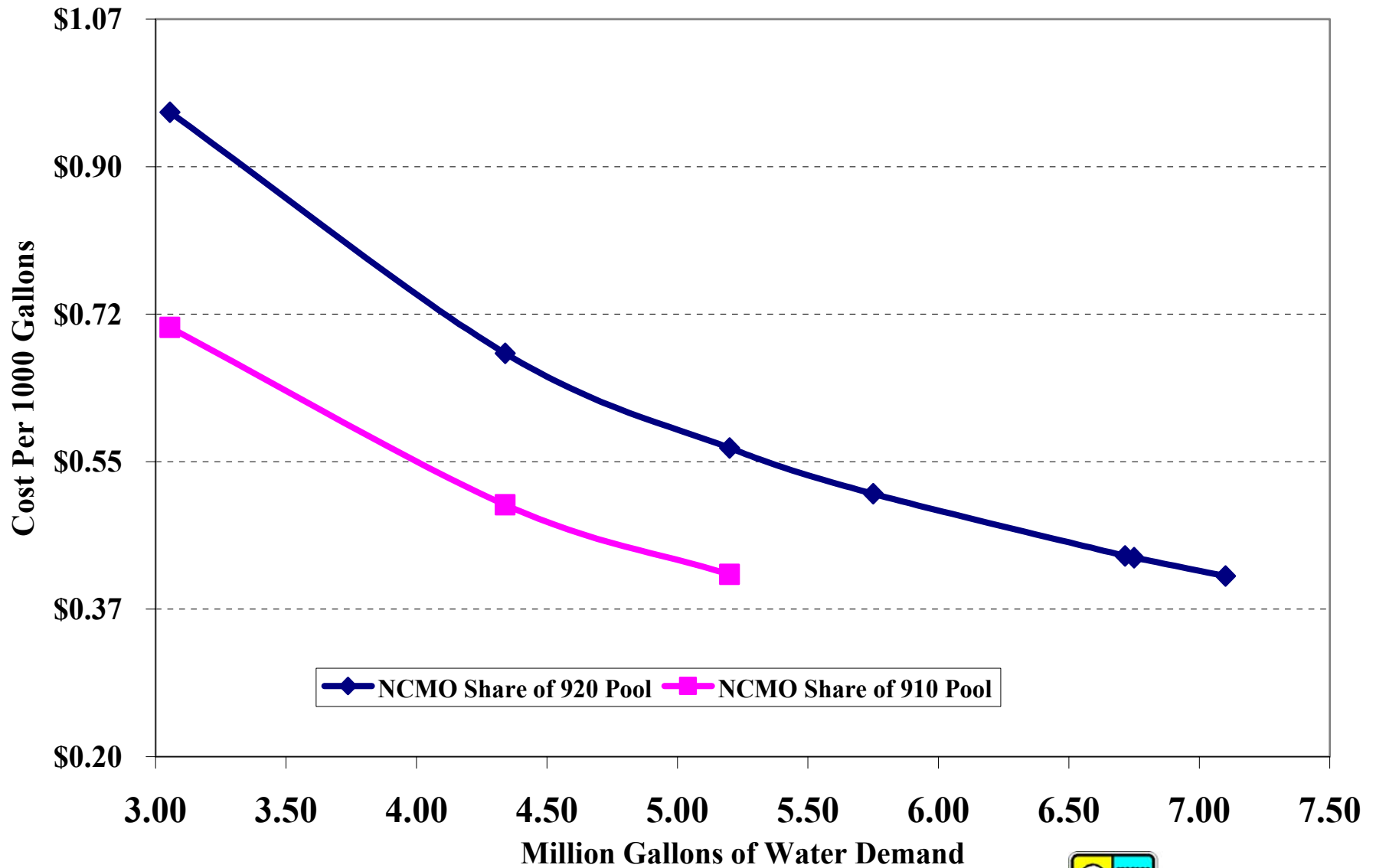
# North Missouri Water Supply

Demand = 6.75 MGD

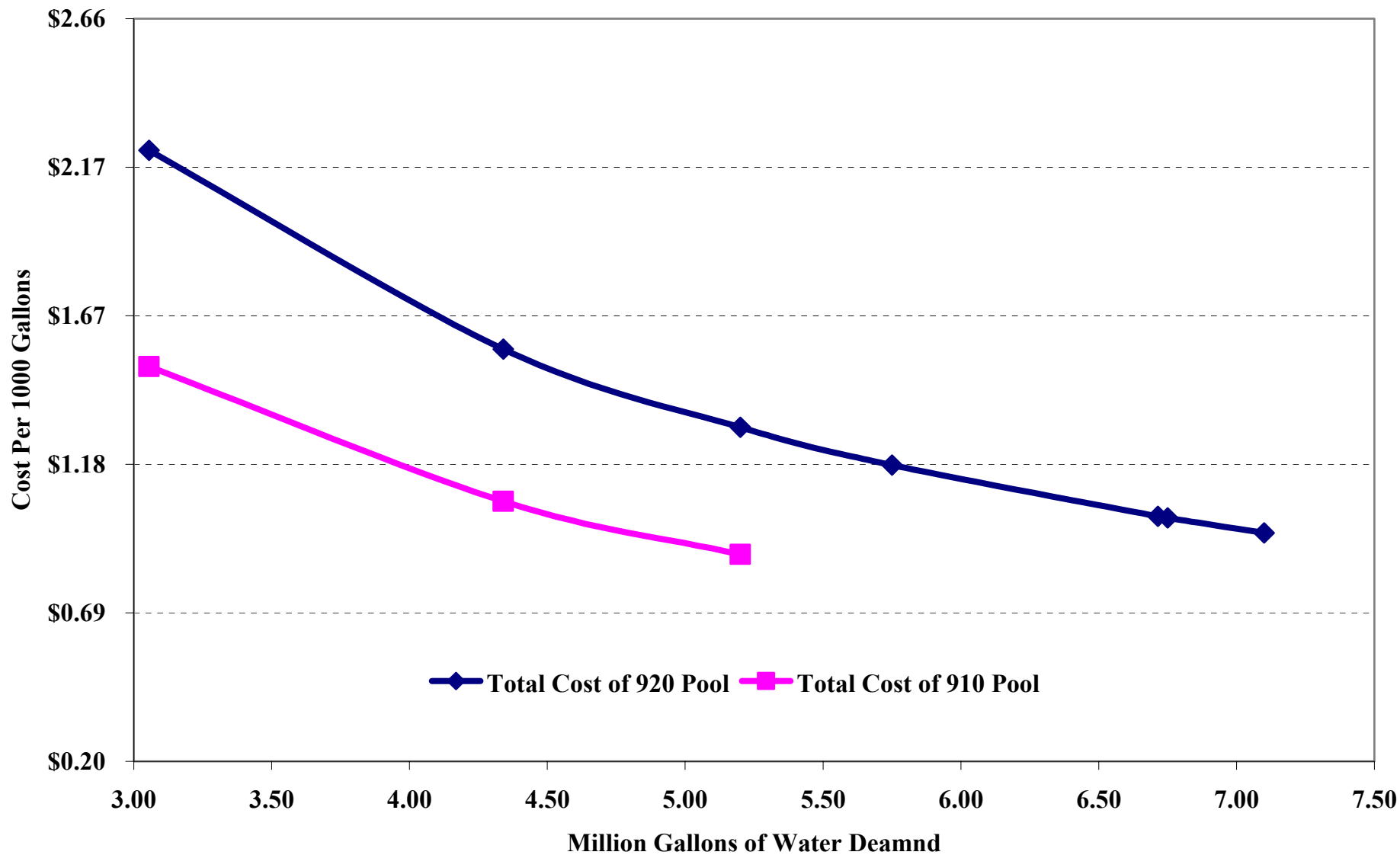




# North Central Missouri Water Supply Project: Daily Cost per Thousand Gallons of Raw Water



# Notrh Central Missouri Water Supply Project: Daily Cost per Thousand Gallons of Raw Water



	Estimate for 920' Lake		Estimate for 910' Lake	
	Total Cost w/o a grant	Local Share	Total Cost w/o a grant	Local Share
Loan amount	\$31,552,368.00	\$13,652,380.00	\$21,392,500.00	\$10,043,125.00
interest rate	4.75%	4.75%	4.75%	4.75%
number of years	20 years	20 years	20 years	20 years
Loan and interest	\$49,569,064.99	\$21,448,016.57	\$33,607,817.42	\$15,777,843.23
Annual Payment	\$2,478,453.25	\$1,072,400.80	\$1,680,390.87	\$788,892.16
	920 ft Elevation (\$31.55 million)		910 ft Elevation (\$21.39 million)	
Water Demand	Total Cost	Local Share	Total Cost	Local Share
1000 Gal/Day	Cost per 1000 Gallon of Water	Cost per 1000 Gallon of Water	Cost per 1000 Gallon of Water	Cost per 1000 Gallon of Water
3,055	\$2.22	\$0.96	\$1.51	\$0.71
4,340	\$1.56	\$0.68	\$1.06	\$0.50
5,200	\$1.30	\$0.56	\$0.88	\$0.42
5,750	\$1.18	\$0.51	\$0.80	\$0.38
6,715	\$1.01	\$0.44	\$0.69	\$0.32
6,750	\$1.01	\$0.43	\$0.68	\$0.32
7,100	\$0.96	\$0.41	\$0.65	\$0.30